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# Kansas Gement Works > Gompany.

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Incorporated December 6, 1884.

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KANSAS CITY, MO.

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# KANSAS CEMENT.

It is ground fine.

It is slow setting.

It is very hydraulie.

It withstands the elements.

It becomes as hard as stone.

# KANSAS CEMENT WORKS COMPANY

HAVE A CAPACITY OF 200,000 BARRELS PER ANNUM.

The works of this company occupying over 200 acres of magnificent quarry lands, are situated at Oakland, in Wyandotte County, Kansas, about two and one-half miles west of Kansas City. Their location on the lines of the Union Pacific and Kansas City Belt Line Railroads, affords unparalled facilities for prompt shipments to all parts of the country.

DIRECT ALL COMMUNICATIONS TO

KANSAS CEMENT WORKS COMPANY,

Office, Live Stock Exchange Building,

KANSAS CITY, MO.

# KANSAS CEMENT WORKS COMPANY

# THE FORMATION OF THE COMPANY.

Some years ago a thin ledge of cement stone was discovered under the bluffs of Kansas City, and the manufacture of hydra ic cement begun on a small scale.

The enterprise was a failure, but the cement which was then made and used has stood the test of time.

A subsequent examination disclosed the presence of the sare deposit of cement stone at Oakland, near Kansas City, the lede there being twelve feet thick, and so situated as to admit of econor-

The experience of the original company, and favorable tes and examinations by chemical and engineering experts having estail lished the fact, beyond any doubt, that a high grade of hydrauli cement could be manufactured at Oakland, the Kansas Cemer Works Co. was organized, and extensive works built.

# SUCCESSFUL USE.

Kansas Cement has been widely used, under a great variety of conditions, in large public works, and in every case has fully sustained a high reputation for permanence and strength. The unqualified approval of the engineers and architects who have used it, and the large and rapidly increasing demand in the Southwestern market, may be considered as evidence of its reliable quality.

# CHARACTERISTICS.

Kansas Cement is a "natural" cement, as distinguished from the so-called "Portland," or artificial, cement of Europe.

It is hydraulic in a high degree, and under water will finally acquire more strength than in air.

It does not set rapidly, and this fact will commend it to all experienced constructors. That activity is not strength or hydraulicity, is well understood, and Gen. Gilmore, the leading authority on the

"Within the range of the experiments which furnish the tables of this work, it is somewhat remarkable that the quickest cements gave the worst results, and the slowest ones the best." (P. S1, Ed.

Slowness in setting carries with it the practical advantage of in-

suring the use of the cement in the work before its activity has been impaired by standing in the mortar box. The "first set" is the best.

Kansas Cement is ground fine. This is an important fact, because the finer the cement the more sand it will carry in mortar, and

the greater its ultimate strength and market value.

The ultimate strength of Kansas Cement, as determined by a large number of tests, is fully equal to that of the best standard American cements, and the company cheerfully invites any impartial comparison.

## HOW TO TEST CEMENT PRACTICALLY.

Make a small ball of pure cement with just enough water to render it plastic. If, after exposure to air for an hour, it will continue to harden daily, in air or water, it will certainly be good enough for any ordinary use.

## THE USES OF HYDRAULIC CEMENT.

IN BUILDING:—In stone and brick work, especially if under ground, the use of cement mortar is essential to permanent and sound construction.

Lime mortar will not harden when damp, and when exposed to water often disintegrates. The exclusion of moisture from the interior of buildings is essential to health, comfort and security, and can only be attained by using cement mortar.

IN SEWERS AND FOUNDATIONS: All underground structures demand the use of cement because it resists the destructive effects

of dampness.

In Cisterns:—Cement concrete and mortar are essential in building economical wells and cisterns. The materials are cheap and manipulation simple, while structures so built are indestructible and water-tight.

IN CELLAR FLOORS:— Cement concrete from five to six inches thick will exclude dampness, vermin and unwholesome gases, and no building should be considered complete without the protection

it affords.

General Uses:—The general use of hydraulic cement are very numerous. It is employed successfully in the construction of heavy masonry of all kinds, street foundations, sidewalks, sewer pipes, safes and vaults, and wherever the destructive effects of fire, frost or water are to be resisted.

## HOW TO USE CEMENT.

The cement should be kept dry, and should be used when freshly ground.

For all ordinary purposes, two parts of sand and one part of

cement will make good mortar.

Sand should be clean, sharp, coarse and dry.

The cement and sand should be mixed dry, and then tempered with water just before using.

For good concrete, mix the mortar as above, then add five parts of clean and well wet broken stone, and mix thoroughly.

Concrete should be slightly tamped after being placed, so that the cement will begin to flush to the surface.

In laying cellar floors, or wherever very tight and strong work is wanted, but little water should be used, and the concrete should be thoroughly tamped.

The walls of cisterns should be made of two coats of mortar, each one-half inch in thickness, the second being applied after the first is two days old.

## TESTIMONIALS.

We respectfully refer you to a few of the many highly and complimentary letters from prominent architects, engineers and contractors:

#### J. C. WHIPPLE.

Superintendent of Contractors of Western Branch of National Home for Disabled Volunteer Soldiers.

OFFICE OF SUPT. OF CONTRACTORS OF WESTERN BRANCH
OF NATIONAL HOME FOR DISABLED VOL. SOLDIERS.

LEAVENWORTH, KAS., July 23, 1885.

KANSAS CEMENT WORKS Co., Kansas City, Mo.:

Gentlemen:—We have used quite a quantity of Hydraulic Cement in the construction of the foundations of the different buildings now in course of erection. We have had cement from different works, and I find that furnished from your works to be good. It stands the test as well as any brand we have ever used. I can safely say that where Hydraulic Cement is to be used, yours will fill the bill. I find it sets slow. The result is more satisfactory than that obtained from any other brand. So long as your cement retains its present high standard, I shall continue to use it.

Respectfully,

J. C. WHIPPLE.

### KANSAS CITY PACKING CO., Kansas City, Mo.

OFFICE OF KANSAS CITY PACKING Co.,

KANSAS CITY, Mo., May 28, 1885.

KANSAS CEMENT WORKS Co., Kansas City:

GENTLEMEN —Having used the different brands of cement in the construction of our works, and having given all practical tests, we are pleased to say that the cement furnished by your company is an excellent hydraulic cement, and that it produces as good results as the best standard cement in the market. We can recommend it for all kinds of work where cement is used.

Yours truly,

KANSAS CITY PACKING CO.

#### DAN'L BONTECOU, Chief Engineer of the Kansas City Belt R. R. Co.

CHIEF ENGINEER'S OFFICE OF THE KANSAS CITY
BELT LINE R. R. Co.,

Kansas City, Mo., January 2, 1885. COL. C. F. MORSE, Manager: DEAR SIR :- As requested by you, I have examined the quarries and mills of the Kansas City Cement Co., and tested some of the cement. The cement rock lies in five ledges, aggregating ten feet in thickness, and can be quarried for a long time at a very moderate cost. The arrangement of the kilns and mill is a very favorable one, and will admit of an early extension of the capacity of the works. A switch 1,200 feet long will connect the mill with the main line of the K. P. R'y. The samples of cement which I tested were obtained by me from Mr. Forrester's work or Main street. The cement was mixed pure and rather wet, and after being left about twenty minutes in the air, was placed under water. A small ball placed in the water immediately after mixing, will stand. This was tried repeatedly, and indicates hydraulic properties. Seven samples broken when one day old averaged 29 pounds. Two samples broken when two days old averaged 65 pounds; two samples 30 days old, averaged 175 pounds; one, sixty days old, 205 pounds. The tests made indicate a uniform quality, and, while the tests have not extended beyond 60 days. I am of the opinion that, although setting slowly, the process of hardening will be found Yours truly, to be long continued. DAN'L BONTECOU.

## W. P. ALLCUTT, Superintendent Armour Packing Co.

ARMOUR PACKING Co.,

ARMOUR & Co., Chicago, Ill. H. O. ARMOUR & Co., New York.

ARMOUR BROS. BANKING Co., Kansas City.

KANSAS CITY, Mo., May 14, 1885.

KANSAS CEMENT WORKS Co., Kansas City:

GENTLEMEN: - Having used the different brands of cement in the construction

of our works, and having given all practical tests, I am pleased to say that the cement furnished by your company is an excellent hydraulic cement, and that it produces as good results as the best standard cement in the market. I can recommend it for all kinds of work where cement is used.

Yours truly,

W. P. ALLCUTT,
Superintendent Armour Packing Co.

#### WM. B. KNICHT, Late City Engineer, Kansas City.

OFFICE OF CITY ENGINEER, KANSAS CITY, Mo., June 11, 1885.

THE KANSAS CEMENT WORKS CO., KANSAS CITY, MO.:

Gentlemen:—In response to your request for the result of my observations and experience in the use of your cement, I have to say that this cement has been used during the past year under my direction as City Engineer, on the public works of this city. I have tried it under foundations for street pavement, for all sizes of sewer and for miscellaneous purposes, under different conditions, and have always obtained satisfactory results. Being a comparatively new brand, it was subjected to frequent office tests, and its behavior in actual use on the works has been carefully obtained. This is a good hydraulic cement, does not set up too quickly for general purposes and shows a uniform increase in hardness according to age. I can recommend for general use under the same conditions applicable to all of the best common cements.

Yours truly,

WM. B. KNIGHT,

#### W. D. CHURCH. Chemist, A., T. & S. F. R. R. CO

LABORATORY OF A., T. & S. F. R. R. Co.,

Topeka, Kansas, September 1st, 1885.

C. F. Morse, Pres't Kansas Cement Works Co.:

Report on Kansas Cement:—Received on August 12th, U. P. Car No. 3680, set in 40 minutes, stood one day in air, balance in water.

8 days strength, 115 lbs.
10 " " 121.5
15 " " 181
20 " " 196

This is a good, hard cement.

Respectfully,

W. D. CHURCH, Chemist, A., T. & S. F. R. R. Co.

# G. HARCREAVES, Purchasing Agent Atchison, Topeka & Santa Fe Railroad Co.

Atchison, Topeka & Santa Fe Railroad Co., Purchasing Agent's Office,

TOPEKA, KANSAS, May 19, 1885.

G. R. HARRIS, Esq., Ass't General Manager:

DEAR SIR:—Enclosed find copy of Mr. Church's letter of the 18th inst., on the subject of Kansas Cement.

All the cement now on hand furnished by the Kansas Cement Works Company is believed to be fully equal in strength to the well known brands of American cement like the Utica and Milwaukee. Yours truly,

G. HARGREAVES,
Purchasing Agent.

## EVANS & BRICKER, Contractors at Soldiers' Home, Leavenworth, Kas.

Leavenworth, Kas., August 12, 1885.

KANSAS CEMENT WORKS Co.:

GENTLEMEN:—Having been engaged in contract work for the past twenty years, and having used various brands of cement, we take pleasure in recommending the cement manufactured by the Kansas City Cement Works Co. We are now using the cement, and it gives perfect satisfaction in every respect.

Yours truly,

EVANS & BRICKER.

## J. S. SIMMONS, Lexington, Mo., Water Works.

OFFICE OF WATER CO.

LEXINGTON, Mo., August 3, 1885.

KANSAS CEMENT WORKS Co.:

Gentlemen:—I used 200 barrels of your cement in constructing concrete foundations for the stand-pipe for the Lexington Water Co., at Lexington, Mo., and believe the foundation to be as firm and solid as any in the country. Foundation is 25 feet in diameter by 150 feet high, capacity 300,000 U.S. gallons, and when stand-pipe is full of water, the foundation will have to sustain the weight of 1,350 tons. Have used all brands of cement manufactured in this country, and have no hesitancy in saying I believe your cement the equal in every respect of the best I have ever used. Will order another car of you in a few days, to be used in the reservoirs being constructed here.

Respectfully,

J. S. SIMMONS.

The Kansas Cement Works Co. feel justified in asking the favorable attention of users of hydraulic cement, because confident that experience will verify their claims for supplying a material which is not surpassed, in all the essential and desirable properties of a good cement, by the product of any of their competitors, and deem it not improper to expect in their own vicinity and among their neighbors any recognition to which they may be entitled.

# SALE AND SHIPMENT OF CEMENT.

Cement is sold in Barrels, Grain Bags or Paper Sacks as the purchaser may direct.

A car load of Cement usually means 110 barrels, 165 bags, or

300 paper sacks.

A barrel of Cement weighs 265 pounds, not including barrel.

A bag of Cement weighs 178 pounds. A sack of Cement weighs 100 pounds.

Prices of Cement, per barrel, will be given on board cars at the mill, or at place of delivery as customers prefer.

The prices given are for Cement alone, an additional charge is

made for barrels of 30 cents, and for bags of 25 cents.

When Cement is sold in bags, and the bags are returned in good condition, free of charge to the manufacturers, within sixty days after shipment, they will be paid for at the original price.

Bags to be returned should be safely tied together in bundles, and a tag securely attached, giving the name of sender. At the same time a bill of lading and invoice should be sent to the general

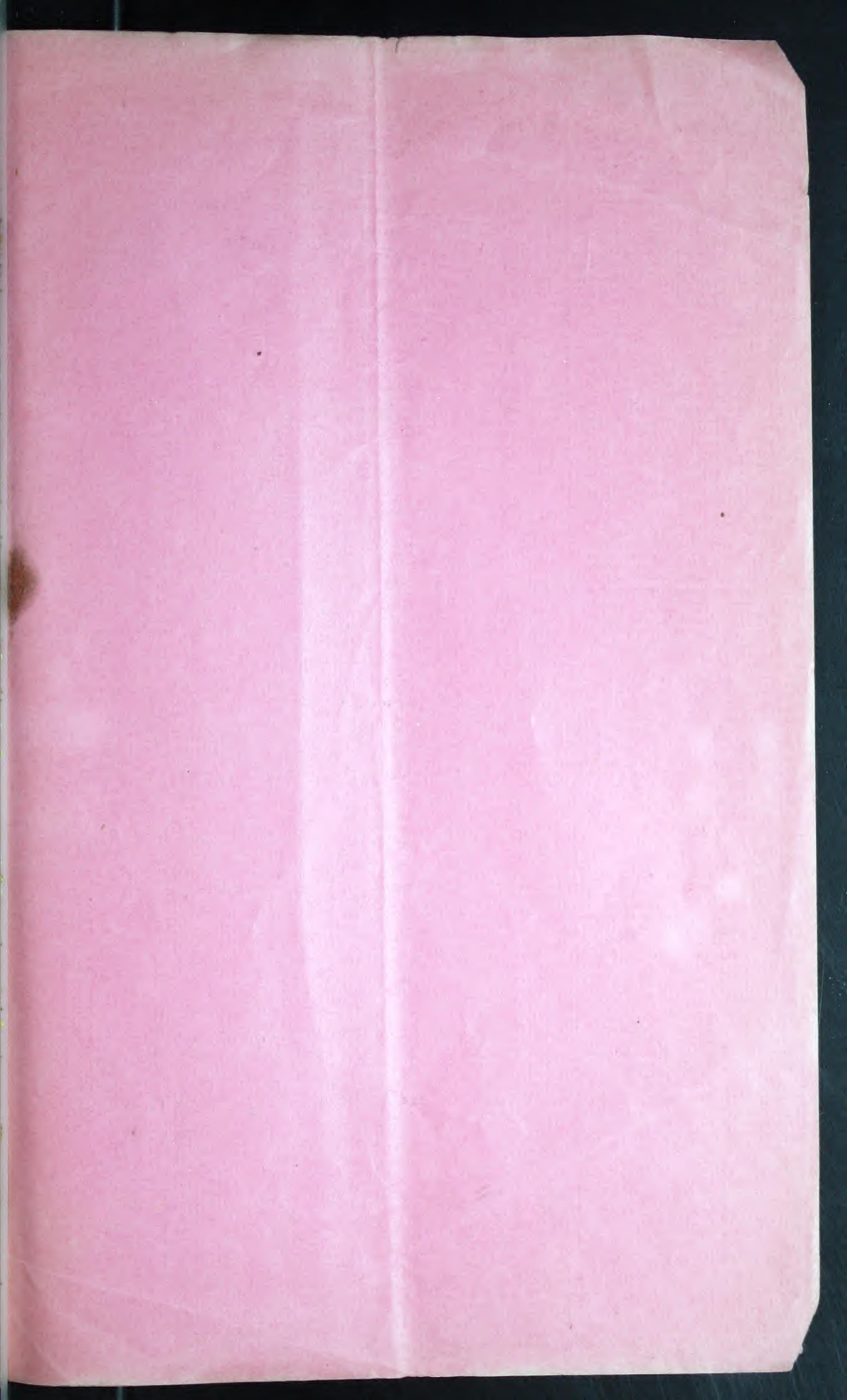
office.

All Cement is tested before shipment, and warranted of standard quality. Manufacturers are not responsible for damage in transportation or improper use; but, for the protection of dealers, Cement which is claimed to be inferior to the standard quality, will be carefully retested by approved methods.

Freights are payable by purchaser. In case of delivery price being given, the supposed freights will be credited on invoice, and in case of error the expense bill should be promptly forwarded for

adjustment by the consignee.

Accounts for Cement in car loads are payable by draft in 60 days; for less than car-load lots, cash, during the month of shipment.





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